

Electronic Filing System (EFS) Data
Electronic Patent Application Submission
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EFS ID: 13768
Application ID: 09683680
Title of Invention: METHOD AND SYSTEM FOR
INFERRING TORQUE OUTPUT OF A
VARIABLE COMPRESSION RATIO
ENGINE
First Named Inventor: Michael Cullen
Domestic/Foreign Application: Domestic Application
Filing Date: null
Effective Receipt Date: 2002-02-01
Submission Type: Utility Patent Filing
Filing Type: new-utility
Confirmation Number: 0
Attorney Docket Number: 200-1527
Digital Certificate Holder: cn=Damian Porcari, ou=Registered Attorneys, ou=Patent and
Trademark Office, ou=Department of Commerce, o=U.S.
Government, c=US
Certificate Message Digest: 4+QhQmA3N3uKOdNM3nsTNA==
Total Fees Authorized: \$1072.0
Payment Category: DA - Deposit Account
Deposit Account Number: 61510
Deposit Account Name: Sheri L. Charles



09683680-020102

TRANSMITTAL FORM

Electronic Version 1.0.3

Stylesheet Version: 1.0

Submission Type: Utility Patent
Filing

Attorney Docket
Number:

200-
1527



METHOD AND SYSTEM FOR INFERRING TORQUE OUTPUT OF A VARIABLE COMPRESSION RATIO ENGINE

First Named Inventor: Michael John Cullen

SUBMITTED BY

Organization Name:

Ford Motor Company

Name:

Sheri Lynn Charles Electronic
Application Specialist

Electronic Signature Mark: /slc

Date Signed: 20020201

I certify that the use of this system is for OFFICIAL correspondence between patent applicants or their representatives and the USPTO. Fraudulent or other use besides the filing of official correspondence by authorized parties is strictly prohibited, and subject to a fine and/or imprisonment under applicable law.

I, the undersigned, certify that I have viewed a display of document(s) being electronically submitted to the United States Patent and Trademark Office, using either the USPTO provided style sheet or software, and that this is the document(s) I intend for initiation or further prosecution of a patent application noted in the submission. This document(s) will become part of the official electronic record at the USPTO.

Attached Files:

declaration

consent.tif

declaration	declaration1of2.tif
declaration	declaration2of2.tif
declaration	art1of3.tif
declaration	art2of3.tif
declaration	art3of3.tif
bibd-transmittal	200-1527apds.xml
specification	specification.xml
fee-transmittal	200-1527fee.xml
patent-assignments	200-1527asgn.xml

Attached Image File(s):

consent.tif
declaration1of2.tif
declaration2of2.tif
art1of3.tif
art2of3.tif
art3of3.tif

2017-03-03 09:03:03

Comments:

09683680-020402

PATENT APPLICATION

ASSISTANT COMMISSIONER FOR PATENTS
Washington, D. C. 20231

Case Docket No. 200-1527
Date: February 1, 2002

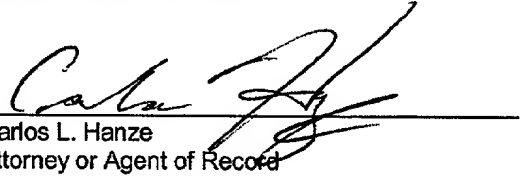
Sir:

Inventor(s):
Michael Cullen

For: **METHOD AND SYSTEM FOR INFERRING TORQUE OUTPUT OF A VARIABLE COMPRESSION
RATIO ENGINE**

The attorney or agent below has reviewed this application and its attachments and consents to
electronic filing by the assignee.

Respectfully submitted:



Carlos L. Hanze
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20020201-08963680

DECLARATION AND POWER OF ATTORNEY - ORIGINAL APPLICATION

Attorney's Docket No.
200-1527

As a below named inventor, I hereby declare:

My residence, post office address and citizenship are as stated below next to my name;

I verily believe I am the original, first and sole inventor or an original, first and joint inventor of the subject matter that is claimed and for which a patent is sought on the invention entitled

METHOD AND SYSTEM FOR INFERRING TORQUE OUTPUT OF A VARIABLE COMPRESSION RATIO ENGINE

the specification of which is attached hereto.

I have reviewed and understand the contents of the specification identified above, including the claims.

I acknowledge my duty to disclose information of which I am aware that is material to the examination of this application in accordance with Section 1.56(a), Title 37 of the Code of Federal Regulations; and as to application for patents or inventor's certificate on the invention filed in any country foreign to the United States of America prior to this application by me or my legal representatives or assigns,

- ☒ no such applications have been filed, or
- ☐ such applications have been filed as follows:
- ☐ I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below

COUNTRY	APPLICATION NO.	DATE OF FILING (month, day, year)	DATE OF ISSUE (month, day, year)	PRIORITY CLAIMED UNDER 35 USC 119	<input type="checkbox"/> Additional provisional application numbers are on a separate priority data PTO/SB/02 attached hereto

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) or § 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56 became available between the filing date of the prior application and the national or PCT International filing date of this application.

(Application Number)	(Filing Date)	(Status - patented, pending, abandoned)
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(Application Number)	(Filing Date)	(Status - patented, pending, abandoned)
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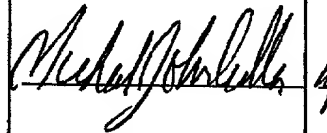
POWER OF ATTORNEY: - I/we hereby appoint Practitioners at Customer No. 022844, as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office and foreign Patent Offices.

Address all correspondence and telephone calls to:

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements jeopardize the validity of the application or any patent issuing thereon.

NAME AND MAILING ADDRESS OF INVENTOR:	RESIDENCE	CITIZENSHIP	SIGNATURE
Michael John Cullen 41740 Camden Ct. Northville, Mich 48167 US	Northville, Mich 48167 US	U.S.A	

09683680-020100

Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Application Number	To be assigned
		Filing Date	Herewith
		Applicants	Cullen
		Group Art Unit	
		Examiner Name	
Sheet 1 of 3	Attorney Docket Number	200-1527	

U.S. PATENT DOCUMENTS						
EXAMINER INITIAL*	Cite No. ¹	DOCUMENT NUMBER	Kind Code ² (if known)	NAME	DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages Figures Appear
		4,246,873		Lih-Liaw	01/27/81	
		4,286,552		Tsutsumi	09/01/81	
		4,469,055		Caswell	09/04/84	
		4,505,152		Haddox	03/19/85	
		4,805,571		Humphrey	02/21/89	
		4,834,031		Kato et al.	05/30/89	
		4,860,711		Morikawa	08/29/89	
		5,146,879		Kume et al.	09/15/92	
		5,165,368		Schechter	11/04/92	
		5,251,855		Cullen et al.	09/07/93	
		5,255,637		Schechter	10/26/93	
		5,287,827		Almendinger et al.	02/22/94	
		5,417,185		Beattie	05/23/95	
		5,562,068		Sugimoto et al.	10/08/96	
		5,595,146		Boillig et al.	01/21/97	

FOREIGN PATENT DOCUMENTS						
EXAMINER INITIAL*	Cite No. ¹	Foreign Patent Document		NAME	DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages Relevant Figures Appear
		Office ³	Number ⁴			

EXAMINER

DATE CONSIDERED

*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not include copy of this form with next communication to applicant.

¹Unique citation designation number. ²Applicant is to place a check mark here if English language Translation is attached. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 2 of 3

Complete if Known

Application Number	To be assigned
Filing Date	Herewith
Applicants	Cullen
Group Art Unit	
Examiner Name	
Attorney Docket Number	200-1527

U.S. PATENT DOCUMENTS

EXAMINER INITIAL*	Cite No. ¹	DOCUMENT NUMBER	Kind Code ² (if known)	NAME	DATE MM-DD-YY	Pages, Columns, Where Relevant Passage Figures Appear
		5,682,854		Ozawa	11/04/97	
		5,724,863		Kramer et al.	03/10/98	
		5,791,302		Ma	08/11/98	
		5,819,702		Mendler	10/13/98	
		5,845,613		Yoshikawa	12/08/98	
		5,862,790		Dai et al.	01/26/99	
		5,865,092		Woudwyk	02/02/99	
		5,960,750		Krueter	10/05/99	
		6,115,664		Cullen et al.	09/05/00	
		6,125,801		Mendler	10/03/00	
		6,135,086		Clarke et al.	10/24/00	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL*	Cite No. ¹	Foreign Patent Document			NAME	DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passage; Relevant Figures Appear
		Office ³	Number ⁴	Kind Code ⁵ (if known)			
			3-92552		Japan	04/17/91	

EXAMINER

DATE CONSIDERED

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FEE TRANSMITTAL

Electronic Version 1.1.0

Stylesheet Version: 1.0

Patent fees are subject to annual revisions on or about October 1st of each year.

Large Entity

TOTAL FEES AUTHORIZED: \$ 1072

The commissioner is hereby authorized to charge indicated processing and/or publication fees and credit any overpayments to:

Deposit Account Number: 06-1510



Deposit Account Name: Ford Global Technologies, Inc.

Charge Any Additional Fee Required Under 37 C.F.R. Sections 1.16 and 1.17.

Charge Assignment Fees Required Under 37 C.F.R. Section 1.21 (h).

SUBMITTED BY

Authorized Name: Sheri L. Charles

Electronic Signature Mark: /slc

Date Signed: 20020201

BASIC FILING FEE

Fee Description	Fee Code	Fee Paid
Utility Filing Fee	101	\$ 740

Subtotal For Basic Filing Fee: \$ 740

EXTRA CLAIM FEES

	Fee Code	Fee	Extra Claims	Fee Paid
Total Claims: 19	103	\$ 18	0	\$ 0
Independent Claims: 6	102	\$ 84	3	\$ 252

Subtotal For Extra Claims Fees: \$ 252

ADDITIONAL FEES

Fee Description	Number	Quantity	Fee Code	Amount	Fee Paid
Recording Each Patent Assignment Per Property Fee	00000000	1	581	\$ 40	\$ 40
Recording Each Patent Assignment Per Property Fee	00000000	1	581	\$ 40	\$ 40

Subtotal For Additional Fees: \$ 80

09683680-020102